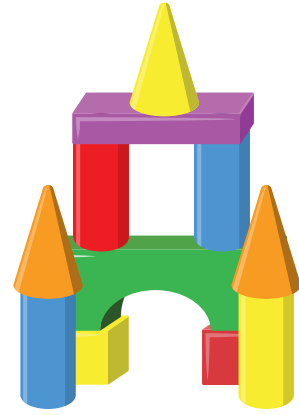


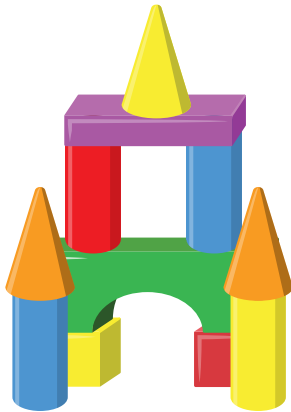
B U I L D I N G

Challenges



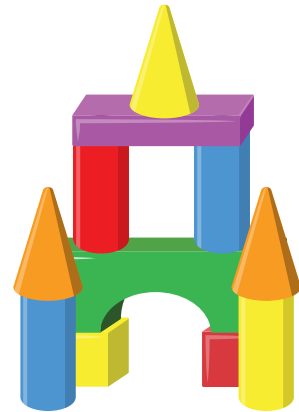
B U I L D I N G

Challenges



B U I L D I N G

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B U I L D I N G

Challenges

Ramps and Pathways

HARD

Design and build a long ping-pong ball run.

Design and build ramps and pathways to move a ping-pong ball from the top front of a table down and around to the back of the table.

Design and build ramps and pathways that move a ping-pong ball left to right then right and back to the left! Make signs for these left and right turns.

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Ramps and Pathways

HARDER

Design and build a marble run with at least four turns, labeling them left or right.

Design and build a roller coaster that uses only gravity to complete a “marble car’s” trip from the beginning to the end.

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Ramps and Pathways

HARDEST

Design and build a set of ramps and pathways with at least one of each of these angles: 45° , 90° , 120° , and one 360° over/under turn. Mark all of your angles.

Design and build a spiral marble run that begins at the top of a table, making all left turns to the back of the table, ending on the floor.

Design and build a double racetrack for two marbles traveling simultaneously. Begin on a table and then wind around onto the floor. Make your racetracks mirror images of each other so the race is fair. Choose marbles that are the same size and weight.

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